

P-W



**CONFIDENTIAL**

Release Date 6-27-73

TESORO PETROLEUM-NAVAJO-DAVIS **593**  
SW/SE Sec 13-T38N-R23E, APACHE CO.

COUNTY Apache AREA 11 mi. S Dinnehotso LEASE NO. N00-C14-20-4333

WELL NAME TESORO PETROLEUM CORPORATION, NAVAJO-DAVIS

LOCATION SW/SE SEC 13 TWP 38N RANGE 23E FOOTAGE 660 FSL - 1980 FEL

ELEV 5263 GR 5278 KB SPUD DATE 8-30-72 STATUS P & A TOTAL  
COMP. DATE 9-27-72 DEPTH 5547

CONTRACTOR LOFFLAND DRILLING CO.

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	
<u>13 3/8"</u>	<u>355'</u>	<u>350 sx</u>		<u>X</u>	
				DRILLED BY CABLE TOOL	
				PRODUCTIVE RESERVOIR	<u>N.A.</u>
				INITIAL PRODUCTION	<u>X</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
De Chelly	1964		x	
Organ Rock	2510		x	
Cutler Evaporites	3220		x	
Hermosa	4342		x	
Molas	5240		x	
Mississippian	5280		x	

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Dual Ind. Laterolog-2			<u>Am Strat</u>
Borehole Comp Sonic Log-			SAMPLE DESCRP.
Gamma Ray-2, Comp Form Den-			SAMPLE NO. <u>1708</u>
sity Log-2,			CORE ANALYSIS
Comp. Neutron Form. Density-2			DSTs <u>None Reported</u>

REMARKS	APP. TO PLUG
	PLUGGING REP. <u>X</u>
	COMP. REPORT <u>X</u>

WATER WELL ACCEPTED BY \_\_\_\_\_

BOND CO. Maryland Casulaty Company BOND NO. 94-355014

BOND AMT. \$ 5,000 CANCELLED 2-5-80 DATE 8-17-72 ORGANIZATION REPORT 9-19-72

FILING RECEIPT 2928 LOC. PLAT X WELL BOOK X PLAT BOOK X

API NO. 02-001-20170 DATE ISSUED 8-17-72 DEDICATION 80 acres S/2 of SE/4

PERMIT NUMBER 593

(over)

NO.	FROM	TO	RESULTS
			None Reported

CORE RECORD				
NO.	FROM	TO	RECOVERY	REMARKS
1 *	4991	5210	19	Dark Redish Brownshale and 4' Limestone.
				No porosity-No show.
* - Schlumberger measurements			4996-5015	

[illegible]

ADDITIONAL INFORMATION

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG									
<b>DESIGNATE TYPE OF COMPLETION:</b> New Well <input type="checkbox"/> Work-Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Same Reservoir <input type="checkbox"/> Different Reservoir <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Dry <input checked="" type="checkbox"/>									
<b>DESCRIPTION OF WELL AND LEASE</b>									
Operator Tesoro Petroleum Corp. Suite 1012, 1776 Lincoln Street, Denver, Colorado 80203					Address				
Federal, State or Indian Lease Number or name of lessor if fee lease NOO -C- 14-20-4333 Navajo Davis					Well Number 1		Field & Reservoir Wildcat		
Location 660' FSL, 1980' FEL Sec 13					County Apache County, Arizona				
Sec. TWP-Range or Block & Survey Sec. 13, T 38N, R23E									
Date spudded 8-30-72		Date total depth reached 9-25-72		Date completed, ready to produce P/A		Elevation (D.P., B.P., RT or Gr.) 5278' RB		Elevation of casing hd. above base 5263'	
Total depth 5547		P.R.T.D. ---		Single, dual or triple completion? P/A		If this is a dual or triple completion, furnish separate report for each completion.			
Producing interval (s) for this completion					Rotary tools used (interval) 0-5547		Cable tools used (interval)		
Was this well directionally drilled? No		Was directional survey made? No		Was copy of directional survey filed?		Date filed			
Type of electrical or other logs run (check logs filed with the completion) Schlumberger DILL, Sonic, Density, Neutron, GR					Date filed with this report				
<b>CASING RECORD IES Log to follow</b>									
Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)									
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled			
surface	17 1/2"	13 3/8" OD	48.0	355'	350 sq "C"	None			
<b>TUBING RECORD</b>									
Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)		
<b>PERFORATION RECORD</b>									
Number per ft.	Size & type	Depth interval		ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD			Am't. & kind of material used		
							Depth interval		
<b>INITIAL PRODUCTION P/A</b>									
Date of first production		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)							
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)			
Tubing pressure	Casing pressure	Calcd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio			
Disposition of gas (state whether vented, used for fuel or sold):									
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Operations Manager</u> of the <u>Tesoro Petroleum Corporation</u> (company), and that I am authorized by said company to make this report and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.									
Date 12-9-72		Signature <u>J. Harvey Ashford Jr.</u>							
<b>RECEIVED</b>									
DEC 10 1972 O & G CONS. COMM.					STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log Form No. 4 File One Copy				
Permit No. <u>593</u>									

(Complete Reverse Side)

# DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description
Organ Rock	2510'		Core #1 4491' to 5010' - 19' cored recovered 19' dark redish-brown shale, and 4' tan limestone- no porosity, no show.
Hermosa	4342'		
Molas	5240'		
Mississippi	5280'		

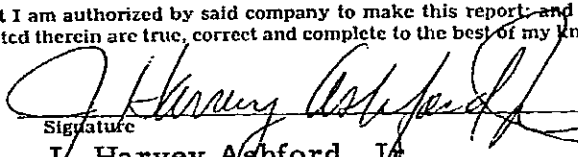
• Show all important areas of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

## INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Resumption report and well log shall be filed with the State of Arkansas Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

PLUGGING RECORD					
Operator <b>Tesoro Petroleum Corporation</b>			Address <b>1776 Lincoln St. Denver Center Bldg. Denver, Colorado 80203</b>		
Federal, State, or Indian Lease Number or lessor's name if fee lease <b>Navajo-Davis NOO-C-14-20-4333</b>		Well No. <b>1</b>	Field & Reservoir <b>Wildcat</b>		
Location of Well <b>660' FSL, 1980' FEL</b>		Sec-Twp-Rge or Block & Survey <b>Sec. 13 T-38-N R-23-E</b>		County <b>Apache</b>	
Application to drill this well was filed in name of <b>Tesoro Petroleum Corp.</b>		Has this well ever produced oil or gas <b>no</b>		Character of well at completion (initial production): Oil (bbls/day) <b>N. A.</b> Gas (MCF/day) <b>N. A.</b> Dry? <b>yes</b>	
Date plugged: <b>September 27, 1972</b>		Total depth <b>5547</b>		Amount well producing when plugged: Oil (bbls/day) <b>N. A.</b> Gas (MCF/day) <b>N. A.</b> Water (bbls/day) <b>N. A.</b>	
Name of each formation con- taining oil or gas. Indicate which formation open to well- bore at time of plugging		Fluid content of each formation		Depth interval of each formation	
Plug #1				5150' to 5350'	
Plug #2				4140' to 4340'	
Plug #3				1850' to 2050'	
Plug #4				300' to 400'	
Surface Plug				0' to 10' (Gr. El)	
Casing Record					
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
13 3/8" OD	355'	All Left	355'	N. A.	None
Was well filled with mud-laden fluid, according to regulations?			Indicate deepest formation containing fresh water.		
Names and Addresses of Adjacent Lease Operators or Owners of the Surface					
Name		Address		Direction from this well:	
Navajo Nation		Windowrock, Arizona			
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Operations Manager</u> of the <u>Tesoro Petroleum Corporation</u> (company) and that I am authorized by said company to make this report and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.					
October 12, 1972 Date		 Signature <b>J. Harvey Ashford, Jr.</b>			
<b>RECEIVED</b> <b>OCT 10 1972</b> <b>593 Q &amp; G CONS. COMM.</b> Permit No.		STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy Form No. 10			

PAUL R. BUEHLER  
PETROLEUM GEOLOGIST  
2775 CRABAPPLE RD.  
GOLDEN, COLORADO 80401  
PHONE 279-4323

October 2, 1972.

Tesoro Petroleum  
1776 Lincoln St.  
Denver Center Bldg.  
Denver, Colorado.

Gentlemen:

Enclosed herewith are a descriptive sample log, core description, chronological log, bit record, slope test record and plugging procedure from your No. 1 Navajo-Davis, Apache County, Arizona. The formations penetrated and other data are as follows:

TESORO PETROLEUM NO. 1 NAVAJO-DAVIS  
SW SE Sec. 13; T33N; R23E  
Apache County, Arizona

Elev: 5263' grd; 5278' K. B.  
Comm: August 30, 1972.  
Comp: September 26, 1972.  
Contr: Loffland Bros. Rig # 25  
Csg: 13 3/8" @ 355' K. B.  
Mud: Chem Gel  
Hole Size: 7 7/8"  
Cores: One from 4991 to 5010 drlr. measure.  
4996 to 5015 Schlum. measure.  
DST's: None.  
Logs: Schlumberger Dual Induction Laterolog,  
Formation Density, Neutron Density and  
GR-Sonic.  
Status: Plugged and Abandoned.

FORMATION TOPS

Top De Chelly	Schlum
▪ Organ Rock	1964'
▪ Cutler Evaporites	2510'
▪ Hermosa	3220'
▪ Molas	4342'
▪ Mississippian	5240'
Total Depth	5280'
	5554'

Schlumberger measure was 7 feet deeper than driller at total depth, however Schlumberger appears to be only 5 feet deeper than driller through the interval of core No. 1.

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Very truly yours,  
*Paul R. Buehler*  
Paul R. Buehler

Tesoro No. 1 Navajo-Davis, Apache Co., Arizona

SAMPLE DESCRIPTIONS

Samples examined and logged by P. R. Buchler, geologist  
on location. Samples examined from 1400' to 5547' T. D.

1400-2000 Sh, red & Sh, grn w/much cvg. (Poor Samples)

TOP DE CHELLY 1964' Schlum

2000-2140 Ss, m.g. - crs. g., wh-gry, a-sa, friable. No show.

2140-2500 Ss, m.g., orange, friable. No show.

TOP ORGAN ROCK 2510' Schlum

2500-3220 Sh, red, mica.

TOP CUTLER EVAPORITES 3220' Schlum

3220-4000 Sh, red-drk red w/anhydrite inclusions.

4000-4010 Sh, red & Sh, lt gry-grn.

4010-4050 Sh, red & Sh, lt gry-grn.

4050-4100 Sh, red, silty.

4100-4130 Sh, red, silty.

4130-4150 Sh, red w/ltl calc siltst.

4150-4160 Sh, red w/consid. calc siltst.

4160-4180 Sh & siltst as above.

4180-4190 Sh, red w/ltl ls, tan-buff-gry, f. xln, sli arenaceous.

4190-4200 Sh, red silty w/tr ls.

4200-4240 Sh, red w/tr ls.

4240-4250 Same as above w/sli more ls.

4250-4300 Sh, red, silty.

4300-4340 Sh, red, silty.

TOP HERMOSA 4342' Schlum

4340-4350 Sh, red, silty.

4350-4360 Sh, red, silty w/tr ls, wh, f. xln.

4360-4370 Sh, red w/ls, wh, f. xln, v. arenaceous w/few specs grn glauc.

4370-4380 Sh, red w/ls as above.

4380-4390 Sh, red, silty.

4390-4400 Sh, red, silty.

4400-4410 Sh, red, silty w/ls, crm-wh, f.xln, arenaceous & chert, orng & pnk.

4410-4420 Ls, crm-wh, f. xln, dns w/ltl pnk chert. Ltl ls, arenaceous.

4420-4430 Ls, as above & Ss, f.g. to siltst, gry, calc.

4430-4440 Sh, red w/ltl ls, crm-buff, f. xln, dns, w/tr chert.

4440-4450 Ls, crm-wh, f. xln, arenaceous.

4450-4470 Ls, as above.

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Tesoro No. 1 Navajo-Davis, Apache Co., Arizona

4470-4480 Ls, crm-wh, f. xln., arenaceous & ltl ls, tan, f. xln w/  
tr foram.  
4480-4490 Ls, crm-wh, f. xln.  
4490-4510 Sh, red w/tr ls, crm-wh, f. xln.  
4510-4520 Sh, red & Ls, crm-wh, f. xln, arenaceous w/consid orng chert.  
4520-4530 Ls, as above w/much chert.  
4530-4540 Ls, as above & Sh, red-brn, silty w/much chert.  
4540-4550 Same as above.  
4550-4560 Sample missed.  
4560-4570 Ls, crm-wh, f. xln w/chert.  
4570-4580 Ls, as above.  
4580-4590 Ls, gry-tan, v. argillaceous.  
4590-4600 Ls, tan-gry-buff, dns. ? crinoid.  
4600-4610 Ls, crm-wh, f. xln, arenaceous w/consid pnk & tan chert.  
4610-4620 Same as above.  
4620-4630 Sh, red & brn w/ls, gry, argillaceous.  
4630-4640 Ls, crm-buff, m. xln w/consid chert.  
4640-4650 Ls, as above.  
4650-4660 Ls, as above & Sh, rd.  
4660-4670 Ls, tan, m. xln, argillaceous.  
4670-4680 Ls, wh, v. arenaceous to Ss, wh, v. calc.  
4680-4690 Chert, tan 80% w/ltl ls, wh, f. xln.  
4690-4700 Chert, tan 80% w/ltl ls, wh, f. xln.  
4700-4710 Ls, tan, f. xln, sli dolomitic w/consid chert.  
4710-4730 Sh, red, silty w/ltl ls, as above.  
4730-4760 Ls, crm-wh, f. xln w/ltl chert.  
4760-4780 Ls, tan-brn, f. xln, argillaceous.  
4780-4790 Ls, crm-buff, f. xln. Indistinct fossils?  
4790-4800 Ls as above w/forams.  
4800-4840 Ls, crm-buff, f. xln w/forams.  
4840-4850 Ls as above & Sh, red, silty.  
4850-4880 Ls, crm-wh, f. xln w/indist fossils.  
4880-4890 Sh, red w/some Sh, maroon, mottled.  
4890-4900 Sh, as above.  
4900-4920 Ls, crm-wh, m. xln w/fossils.  
4920-4930 Ls, crm-wh, f. xln & Sh, red.  
4930-4960 Sh, red, gry & grn mottled.  
4960-4967 Ls, crm-wh, m. xln, foram w/Ss, crs. g., wh, friable.  
Good por. No show.  
4967 Circ 1 hour. Ls, crm-wh, m. xln, foram.  
4967-4975 Ls, crm-wh, m. xln, foram.  
4975-4985 Ls, crm-wh, f. xln, dns w/fossil trash. ?brach.  
4985-4987 Ls, as above.  
4987 Circ 15 min Ls, as above & Sh, red & grn.  
4987 Circ 1 hour Sh, red & grn.  
4991 Circ 1 hour Sh, red & grn.

Core No. 1 4991 to 5010 drlr; 4996 to 5015 Schlum

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Tesoro No. 1 Navajo-Davis, Apache Co., Arizona

5010-5020 Sh, red-brn.  
5020-5030 Sh, red-brn.  
5030-5060 Sh, red-brn w/ltl ls, crm-wh, f. xln.  
5060-5070 Ls, crm-wh, f. xln.  
5070-5080 Ls, as above w/tr chaetetes & Sh, red.  
5080-5090 Same as above.  
5090-5100 Ls, wh, f. xln & Sh, red.  
5100-5140 Sh, red w/tr ls, as above. Consid chert 5100-5110.  
5140-5180 Ls, crm-wh, f. xln.  
5180-5190 Sh, red-brn.  
5190-5200 Sh, as above w/ltl ls, crm-tan, m. xln.  
5200-5210 Ss, crs. g., pnk & Sh, red.  
5210-5220 Sh, red & lav w/tr ls, f. xln, wh.  
5220-5240 Sh, red w/tr ls as above.

TOP MOLAS 5240' Schlum

5240-5250 Sh, red w/ltl chert, orng.  
5250-5260 Ls, crm-wh-tan, f. xln. Some sli yell.  
5260-5270 Ls, as above w/some sli peletal or oolitic.  
5270-5280 Ls, crm-wh to sli yell & Sh, red & lav.

TOP MISSISSIPPIAN 5280' Schlum

5280-5290 Ls, crm-wh, f. xln, chalky & Sh, red & lav.  
5290-5300 Ls, wh, f. xln, chalky & Ls, tan, f. xln, oolitic.  
5300-5340 Ls, crm-wh, f. xln, chalky.  
5340-5360 Ls, wh, f. xln, oolitic.  
5360-5400 Ls, wh, f. xln w/many crinoids.  
5400-5430 Ls, wh, f. xln, chalky & Sh, red, grn & lav. (Sh may be cvgs).  
5430-5460 Ls, and Sh as above.  
5460-5480 Ls, wh, f. xln w/wh chert.  
5480-5500 Ls, wh, f. xln.  
5500-5547 Ls, wh, f. xln.  
5547 Circ 2 hrs. Ls, wh, f. xln.

T.D. 5547 drlr; 5554 Schlum

Paul R. Buehler,  
Geologist

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Tesoro No. 1 Navajo-Davis, Apache Co., Arizona

#### CORE DESCRIPTION

Core No. 1 4991 to 5010 drlr; 4996 to 5015 Schlum  
Cut 19'; Recovered 19'

4991 to 5006 (15') Shale, drk redish brown and green mottled w/  
occasional thin limestone streak in lower 2'.

5006 to 5010 (4') Limestone, tan to buff, fine xln., dense  
sub-lithographic. No por. No show.

Coring time - minutes per foot

4991-5000 21-36-33-37-35-31-28-33-33  
5000-5010 27-26-25-24-28-17-24-17-21-22

#### SLOPE TESTS

8/30	80'	1/2	9/7	2700'	4 1/4
8/30	280'	3/4	9/7	2715'	4
9/1	355'	1 3/4	9/8	2790'	3
9/1	737'	2 3/4	9/8	2914'	3 1/4
9/2	1066'	1 1/4	9/9	2990'	2
9/4	1425'	1	9/9	3070'	1 1/2
9/5	1916'	1 3/4	9/10	3200'	1 1/2
9/6	2200'	1 1/2	9/12	3741'	1/2
9/6	2500'	4 3/4	9/14	4068'	1/2
9/6	2650'	4 1/2	9/21	4975'	1 1/2

#### PLUGGING PROCEDURE

1.	5350' up to 5150'	200'	Across Mississippian
2.	4340' up to 4140'	200'	Across Pennsylvanian
3.	2050' up to 1850'	200'	Across De Chelly
4.	400' up to 300'	100'	In & out of 13 3/8" Csg.
5.	10' up to 0'	10'	Top 13 3/8" Csg. w/marker.

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Tesoro No. 1 Navajo-Davis, Apache Co., Arizona

CHRONOLOGICAL LOG

8/29 Rig up.  
8/30 Drld rat hole & mouse hole. Drld surface hole 0' to 280' w/12 1/4" bit. Drld 280' to 360' w/ 12 1/4" bit. Began reaming 12 1/4" hole to 17 1/2".  
8/31 Finish reaming 12 1/4" hole to 17 1/2" to 360'. Ran 12 jts. of 13 3/8" 48# Surf. Csg. Set @ 355' K.B. w/350 Sxs of class "C" cement w/2 % CaCl. Good returns. Plug down @ 1:00 P.M. W.O.C.  
9/1 Drlg 355' to 737'.  
9/2 Drlg 737' to 1166'. Stuck pipe.  
9/3 Fishing.  
9/4 Fishing. Drlg 1166' to 1528'.  
9/5 Drlg 1528' to 1970'.  
9/6 Drlg 1970' to 2650'.  
9/7 Drlg 2650' to 2805'.  
9/8 Drlg 2805' to 2981'.  
9/9 Drlg 2981' to 3200'.  
9/10 Drlg 3200' to 3391'.  
9/11 Drlg 3391' to 3583'.  
9/12 Drlg 3583' to 3741'.  
9/13 Drlg 3741' to 3895'.  
9/14 Drlg 3895' to 4085'.  
9/15 Drlg 4085' to 4345'.  
9/16 Drlg 4345' to 4440'.  
9/17 Drlg 4440' to 4603'.  
9/18 Drlg 4603' to 4773'.  
9/19 Drlg 4773' to 4919'.  
9/20 Drlg 4919' to 4991'.  
9/21 Coring 4991' to 5010'. Drlg 5010 to 5051'.  
9/22 Drlg 5051' to 5160'.  
9/23 Drlg 5160' to 5314'.  
9/24 Drlg 5314' to 5490'.  
9/25 Drlg 5490' to 5547' T. D. Ran Schlumberger Dual Induction Laterolog, GR-Sonic Log, Neutron Density Log and Formations Density Log.  
9/26 Finish Schlumberger Logging. Plug and Abandon hole.

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Tesoro No. 1 Navajo-Davis, Apache Co., Arizona

BIT RECORD

1.	12 1/4	HTC	OSC-1G	0'-360'	360'	?
2.	7 7/8	"	"	-737'	377'	5 1/2
3.	"	"	"	-1126'	389'	11
4.	"	"	"	-1916'	788'	20
5.	"	Sec	DYSG	-2650'	734'	17 1/2
6.	"	"	S-4	-2914'	264'	30
7.	"	"	M4N	-3255'	341'	34
8.	"	"	S4TG	-3442'	187'	20
9.	"	Smith	SDGH	-3741'	299'	30 1/4
10.	"	HTC	J-44	-3783'	42'	9 1/4
11.	"	Smith	DG	-4068'	285'	28
12.	"	"	DGTH	-4345'	277'	25 1/4
13.	"	"	"	-4411'	66'	8
14.	"	HTC	J-44 RR#10	-4991'	580'	94 1/4
15.	7 27/32	Chris	Dia	-5010'	19'	9
16.	7 7/8	Sec	H7SG	-5123'	113'	13 3/4
17.	"	HTC	J-44 RR#14	-5547'	424'	59 3/4

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DEC 19 1972

Sept. 26, 1962

Samples from the following well have been received.

Tesoro Petr. #1 Navajo Davis  
Sec. 13-38N-23E  
Apache Co. Ariz. File # 593

*Jo Ratchiff*  
FOUR CORNERS SAMPLE CUT ASSOCIATION  
P. O. BOX 899  
BARMINGTON, NEW MEXICO

RECEIVED

SEP 28 1962

O & G CONS. COMM.



OIL & GAS CONSERVATION COMMISSION  
STATE OF ARIZONA  
TELEPHONE 271-5151  
PHOENIX, ARIZONA, 85013

4515 N. 7th Ave

85013

September 26, 1972

Memo to File Tesoro Petroleum Navajo Davis No. 1  
SW/SE Section 13-T38N-R23E  
Apache County  
Permit No. 593

Memo from W. E. Allen, Director  
Enforcement Section

Harvey Ashford called this date for permission to plug and abandon  
the above referenced well. The plugging program is as follows:

Cement plug 5150 - 5350  
4140 - 4340  
1850 - 2050  
300 - 400 (across the shoe)

20' plug top of casing with regulation dry hole marker  
Total depth is 5552 - wire line measurement

TOPS

De Chelly	1964 ✓	Geol.
Organ Rock	2510 ✓	"
Cutler Evaporites	3220 ✓	"
Hermosa	4340 ✓	4342
Molas	5240 ✓	
Miss.	5280 ✓	



WD  
Tesoro

Navajo Davis #1

Drilg. 4150 MW. 9.1 Vis 36 W.L. 6 2/32 cake. Bit # 12 running 35,000#  
RPM 90 Survey-4063 1/2 Time: 20 hrs drilling and 4 hours trip.

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41/2  
**Tesoro**  
Navajo Davis #1  
Page 2

9-8-72 Drlg. 2865' sd & sh. Bit #6. MW 9.0, Vis 39, WL 4.8,  
FC 2/32. Dev. @2715 4 deg. Ran stabilizer 60' above  
bit. Dev. @2790 3 deg. Carrying 15,000 lbs. on bit.  
110 RPM. Drlg. 19 3/4 hrs, surveys 3/4 hr, trip 3 1/2 hr,  
other 1/4 hr.

9-9 3035 Drlg shale and sand wt. 9.0 vis. 40 WL 6.0 3 1/4 @ 2860  
2° @ 2990 Drlg 19 1/2 trip 3 3/4 Survey 3/4

9-10 3255' trip sand and shale 20 1/4 hr Drlg 1 hour trip 1 1/4 survey  
1 1/2 R.R. Mud 9.0 wt 38 vis. 6.0 w.l. 2/32 cake 1 1/2° @ 3070,  
1 1/2 ° @ 3200.

9-11 Drlg 3442' sand and shale, <sup>MW</sup> 9.0, vis 40, <sup>WL</sup> 8.0, 2/32 cake  
Bit # 8 M4N 3255-3422 wo hr. 1° c3255 3/4 @ 3442 20 hr. drlg.  
trip 4 hr.

Navajo Davis

9-12 Drlg at 3630 sand and shale. Mud. 9.0 Vis. 36 W.L. 6  
2/32 cake Surveying 3442- 3/4 bit # 9 100 RPM. 35, 000 lbs. on  
bit. Rig break in 15 3/4. 4 1/2 trip 3 3/4 rig repaired.

Navajo Davis:

9-13 Drlg at 3766 appears shale and sand. MW 9.1 Vis. 39 W.L. 7.6 2/32 oil Cake  
Survey 2741 1/2° run bit # 10 Hughes J-44 18 1/2 hrs. drilling. 4 3/4 hr  
Trip. 3/4 hr. rig repair.

9-14 Navajo Davis #1  
Drlg. 3960' sand and Shale. MW 9.3 Vis 38 W.L. 6.5 2/32 oil cake  
20 1/4 hr. drlg. 3 3/4 Trip. Bit # 11 in hole 98 RPM - 30,000 lb.  
Average penetration rate 11' per hour.

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Dave Collis  
Contact radio #1T5 - Farmington  
Radio Dispatch (505) 325-1873

WA  
Navajo-Davis

8-28 MI, RU Loffland Bros. Drilling Company.

8-29 No report.

8-30 RU, moving rest of equip to location. Spudded 2:15 AM 8-30-72. Drilling pilot hole w/12 $\frac{1}{4}$ " bit OS C IG Hughes. Depth 6:00 AM 77'.  
Time breakdown: RU 16 $\frac{1}{4}$  hrs, digging rat hole 1 hr, digging mouse hole 1 hr, drilling 3-3/4 hrs, misc. 2 hrs.  
MW 9.1#, Vis 30.

8-31 Drilling 12 $\frac{1}{4}$  pilot hole 356' RKB. Finished 4:30 PM. Picked up 17 $\frac{1}{2}$ " reamer. Reamed hole to 356' RKB. Ran survey @200' 3/4 deg. Time breakdown: 10 $\frac{1}{2}$  hrs, drilling, 10 hrs reaming, 2 $\frac{1}{2}$  hrs tripping, 1 hr rig repairs.  
MW 9.1, vis 30.

9-1 Circd and cleaned up hole. Ran 12 joints 13-3/8" 48# H-40 ST&C casing set @355'. Cmtd w/350 sx Class C cmt, 2% CaCl, 3% salt. PD 1:00 PM 8-31-72. Cmt circd. Time Breakdown: Reaming  $\frac{1}{2}$  hr, circg 1 hr, running csg 4 hrs, tripping 1 hr, cmtg  $\frac{1}{2}$  hr. WOC 8 hrs, Other 9 hrs, Depth this morning 355'. Drilling out shoe of casing.

9-2 Drilling 977' - set 13-3/8" surf to 355'. Dev @355' 1-3/4 deg, 737 = 2-3/4 deg.

9-3 TD 1166'. Stuck Deviation, @1066' - 1 $\frac{1}{4}$  deg.

9-4 TD 1166' - fishing.

9-5 Drilling @1775'. Bit #4 Drilling in sd & sh. Dev 1 deg @1425'. MW 9.4, Vis 40, WL 5.6, filter cake 2/32. Time: 16 $\frac{1}{2}$  hrs drilling,  $\frac{1}{2}$  hr surveys, 7 hrs fishing.

9-6 Drlg @2185'. Bit #5. MW 9.5, Vis 37, WL 6, mud cake 1/32. Dev. @1916' - 1 3/4 deg. Drlg. 10 hr, tripping 2 3/4 hr, survey  $\frac{1}{2}$  hr, rig repair 11 hr.

9-7 Drlg @2708' in sd & sh. MW 9.2, Vis 38, WL 4.4, FC 1/32. Dev @ 2200' 1 $\frac{1}{2}$  deg, @2500' 4 3/4 deg, @2530' 4 $\frac{1}{2}$  deg, @2630 4 $\frac{1}{2}$  deg, @2650 4 $\frac{1}{2}$  deg, @2700 4 $\frac{1}{2}$  deg. Weight on bit 5,000 #. RPM 120. Bit #7 in hole. Time breakdown: 15 hrs drilling, 4 $\frac{1}{2}$  hrs tripping, 2 $\frac{1}{2}$  hrs surveys, 2 hrs repairs on pump.

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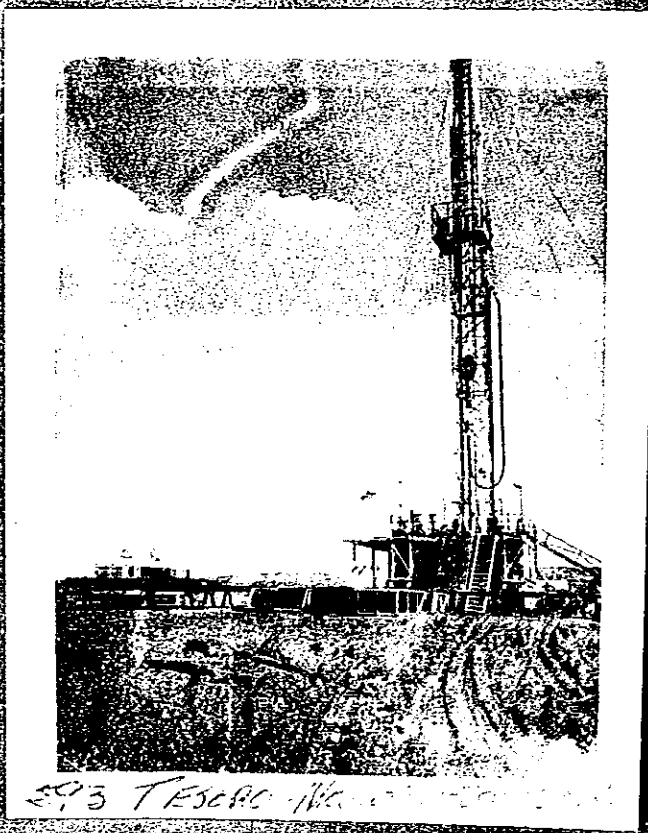
WELL SITE CHECK

By W.E.Q  
Date 8-29-72

Contractor Loftland  
Spud Date 8-23-72  
Type Rig Wilson Rotary ☒ Cable ☐  
Samples \_\_\_\_\_  
Pipe \_\_\_\_\_  
Water Zones \_\_\_\_\_  
Lost Circ. Zones \_\_\_\_\_  
Formation Tops \_\_\_\_\_  
Cores, Logs, DST \_\_\_\_\_  
Crews 3-4 MAAL  
FLY IN AND OUT

Person(s) Contacted Driller  
No Co. Personnel on location  
Present Operations Drilling  
Air \_\_\_\_\_  
Drilling with Mud ☒  
Size Hole 12 1/4  
Size Drill Pipe 4 1/2  
Type Bit \_\_\_\_\_  
No. Bit \_\_\_\_\_ Drilling Rate \_\_\_\_\_  
Formation \_\_\_\_\_  
Lithology \_\_\_\_\_

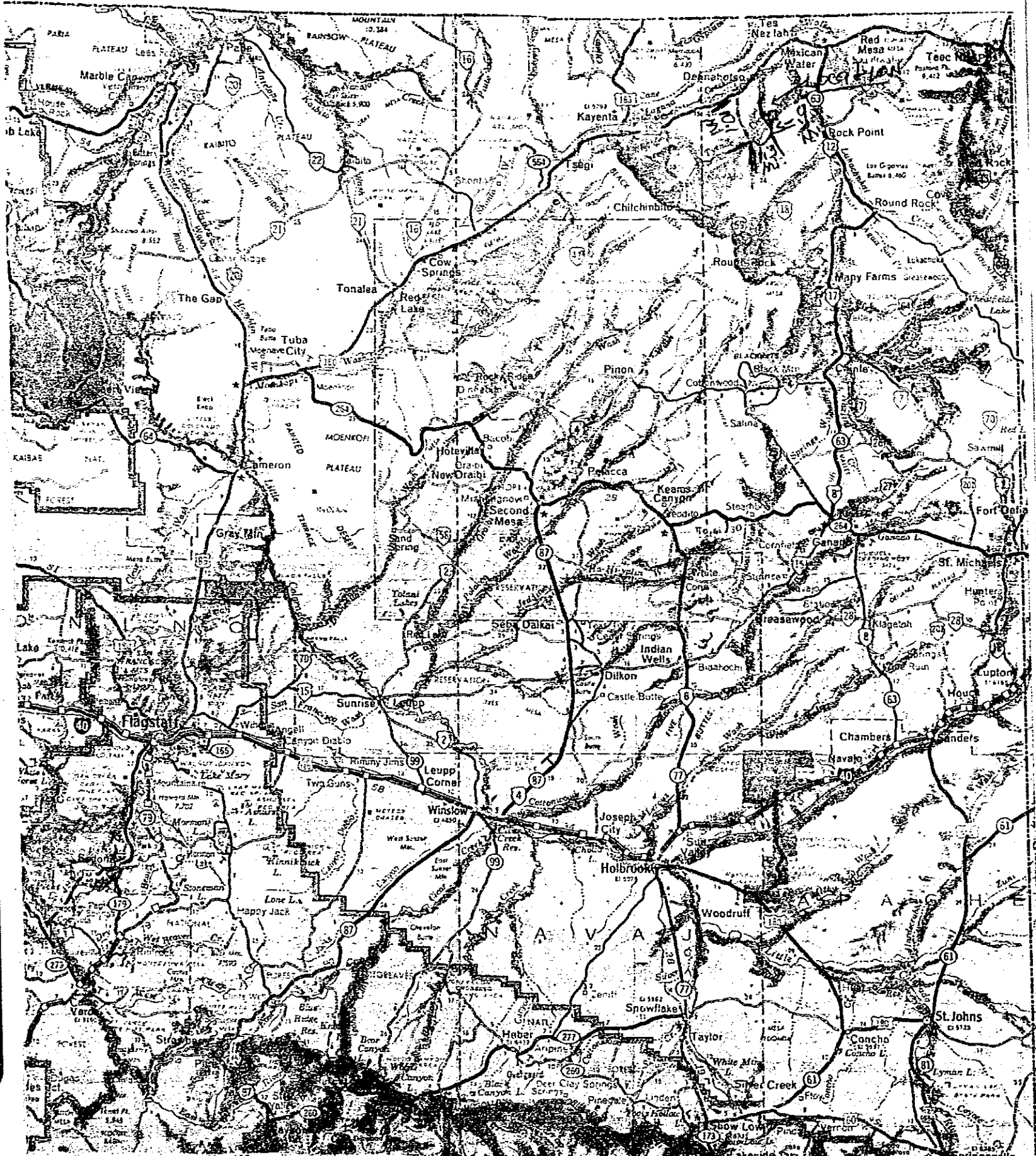
REMARKS, PHOTO, MAP



See Map  
Attached

No1

Permit No. 573  
Confidential Yes No



TESORO Navajo-Davis #1  
 SW/SE 13- T38N-R23E  
 593

TURN South from Hwy 160 2.7 miles west  
 of DENNETSO school & follow above  
 directions to location

Tesoro Petroleum Corporation

DRILLING PROGNOSIS

Navajo-Davis #1  
Dinnehotso Prospect  
SW, SE Sec 13, T38N, R23E  
Apache County, Arizona

Hole Size

17½" hole to 350'  
7-7/8" hole to 5250'

Possible lost circulation or water flow  
ream 7-7/8" hole to 11" hole to 3000'

Casing Design

350' - 13-3/8" O.D. 48#/ft. H-40 ST&C R-3 casing  
5250' - 5-1/2" O.D. 15.5#/ft. K-55 ST&C R-3 casing

Possible intermediate string (lost circulation or water flow)  
3000' - 8-5/8" O.D. 32#/ft. K-55 ST&C R-3 casing (special drifted)

Mud Program

Surface to 350' - Spud mud; viscosity as required to clean hole and  
hold L.C.M. as required to circulate.

350' to 1400' - Light gel system using Baroid Cellex / Dextrid system  
maintaining 6-7 cc water loss.

1400' to T.D. - Maintain system above. Control weight at 9.0#/gallon  
or less. Treat anhydrite contamination with soda ash. Control pH at 9.0  
to 9.5. Raise viscosity to 70-80 sec/qt for wire line logs.

Evaluation

1. Core: Cut guage core (7-13/16") thru porosity of Lower Hermosa  
4800-4850. Depth to be determined by well site geologist.
2. Drill Stem Tests: Two possible Lower Hermosa 4800-4900' and 4900'  
to 5000'.
3. Samples: 350' to T.D. - 10' samples
4. Electric logs: Induction Electric log 350' to T.D.  
BHC Sonic-Gamma Ray 350' to T.D. \*  
Sidewall Neutron-Porosity 4000' to T.D.  
Cont. Dipmeter 4000' to T.D. \*\*  
\*Integrated for seismic analysis  
\*\*The running of this log will be determined  
by the well site geologist.

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Drilling Prognosis

Page 2

July 26, 1972

Geological Data (estimated elevation 5250')

<u>Formation</u>	<u>Sea Level Datum</u>	<u>Depth</u>
De Chelly	+3500	1750'
Organ Rock	+2800	2450'
Hermosa	+1100	4150'
Lower Hermosa	+ 450	4800'
Molas	+ 200	5050'
Leadville	+ 100	5150'
Total Depth	0	5250'

Cementing Procedure

Surface pipe:

Run casing with a regular pattern guide shoe and insert float one joint above shoe. Centralize at center of shoe joint. Weld top and bottom of collars on first three joints and guide shoe. Cement with 375 sacks Class "C" cement with 2%  $\text{CaCl}_2$  and 3%  $\text{NaCl}$ . Use top and bottom wood plugs. W.O.C. 8 hours prior to drilling out. Have cement company batch test cement with mixing water prior to surface job. Note: cementing by B.J. Expect \$100 credit on job in addition to other agreements due to error made by B.J. in Corpus Christi.

Production pipe:

Run casing with float shoe and float collar one joint above shoe. Casing run across productive intervals to be sandblasted to a gray commercial finish, removing all varnish and mill scale. Scratch from 50 feet below to 50 feet above all potentially productive intervals. Centralize a minimum of every other joint thru productive intervals. Use caliper information from logs for placement of centralizers. Cement casing with 260 sacks Class "C" cement, 10% salt, 3/4% CFR-2 (Friction reducer). Preced cement with 500 gallons chemical wash (do not use acid). Use top and bottom wiper plugs and displace cement with fresh water. Clean out cement lines good before displacing plug. Post plug reciprocate casing until impractical.

Intermediate: (if necessary)

Run 8-5/8" 32# special drifted casing with a regular pattern float shoe and insert float one joint above shoe. Centralize at center of shoe joint. Weld top and bottom of collars on first three joints and guide shoe. Cement with 150 sacks Class "C" cement with 2%  $\text{CaCl}_2$ . Use top and bottom plugs. W.O.C. 16 hours prior to drilling out.

Survey and Measurement

1. Deviation surveys in surface hole to be taken at least every 100 feet. Deviation in surface hole not to exceed 1/2 degree at 100' and 1 degree at 350'.

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Drilling Prognosis  
Page 3  
July 26, 1972

2. Deviation surveys are to be taken at least 500' intervals from surface pipe to total depth. Deviation at total depth will not exceed 5 degrees. Maximum change in deviation will not exceed one degree per 100 feet. If excessive deviation problem occurs, pick up a square drill collar with near bit reamer and a string stabilizer on top.
3. A measurement of the drill pipe and collars will be made at 3000' and at 5000', and on the last trip prior to logging, testing, and setting casing.

Safety Procedure

1. B.O.P. - install on 13-3/8" surface pipe and test to 1000 psi for 30 minutes prior to drilling surface shoe. Test B.O.P.'s each 24 hours and log test on tour sheet. Remove BOP's only after production casing has been run and cemented or well has been plugged.
2. B.O.P. manifold - have complete blow-out control manifold hooked up during drilling of well.

Reports

Daily phone reports giving 6:00 A.M. operations, depth, deviation surveys, mud properties, bit records, hour breakdown, casing and cement reports and other pertinent information will be made by 8:30 A.M. during the week to:

Harvey Ashford  
Denver, Colorado  
(303) 572-8337

or

Lynn Raish  
Denver, Colorado  
(303) 572-8337

on holidays and weekends call by 7:30 A.M. to:

Harvey Ashford  
Denver, Colorado  
(303) 794-4330

The daily tour sheet completely filled out, any receiving reports, cementing reports, original of tally sheets, and other pertinent information will be mailed at least twice a week to Denver, Att.: Harvey Ashford. The daily tour sheet will contain all information as required by the standard AAODC form.

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## APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐ RE-ENTER OLD WELL ☐

NAME OF COMPANY OR OPERATOR

DATE

TESORO PETROLEUM CORPORATION

Address

City

State

8520 Crownhill Blvd., San Antonio, Texas 78239

## DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number or name of lessor, if fee lease

Well number

Elevation (ground)

N00-C14-20-4333 - Navajo-Davis

#1

5263

Well location and acreage dedicated to the well (give footage from section lines)

Section—township—range or block &amp; survey

660' FSL, 1980' FEL (80 ac.)

S/2 of SE/4

Sec. 13, T38N, R23E

Field &amp; reservoir (if wildcat, so state)

County

Wildcat

Apache

Distance, in miles, and direction from nearest town or post office

11 miles south Dinnehotso, Arizona

Nearest distance from proposed location to property or lease line:

660

feet

Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:

None

feet

Proposed depth:

5400'

Rotary or cable tools

Rotary

Approx. date work will start

August 9, 1972

Number of acres in lease:

640+

Number of wells on lease, including this well, completed in or drilling to this reservoir:

None

If lease, purchased with one or more wells drilled, from whom purchased:

Name

Address

Status and amount of bond

15000 STATE APPLIED FOR

Blanket U.S. Bond

Organization Report

On file

Or attached. Separate cover

Filing Fee of \$25.00

Attached. Separate cover

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

We propose to drill a 17½" surface hole to 350', set 13-3/8" casing and cement to surface. We will install a hydraulically operated blowout preventor on the braden head and test to 1000 psi. We will then drill a 7-7/8" hole to approximately 5400' or 100' into the Leadville. We will core and drill stem test the Lower Hermosa. If the well proves productive, 5½" casing will be run and cemented.

\*Fill in Proposed Casing Program on reverse side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Operations Manager of the Tesoro Petroleum Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

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O &amp; G CONS. COMM.

Signature

J. Harvey Ashford, Jr.

Date

August 9, 1972

Permit Number:

593

Approval Date:

8-29-72

Approved By:

W.B. [Signature]

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

See Instruction on Reverse Side of Form

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

Application to Drill, Deepen or Plug Back and Plat

File Two Copies

Form No. 3

(Complete Reverse Side)

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒\* NO ☐  
\* operating agreement (farmout) Davis Oil Company
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ☒ NO ☐ If answer is "yes," Type of Consolidation \_\_\_\_\_
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description

40 ac.

**CERTIFICATION**

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Name J. Harvey Ashford, Jr.  
Position District Operations Mgr.  
Company Tesoro Petroleum Corp.  
Date August 9, 1972

I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

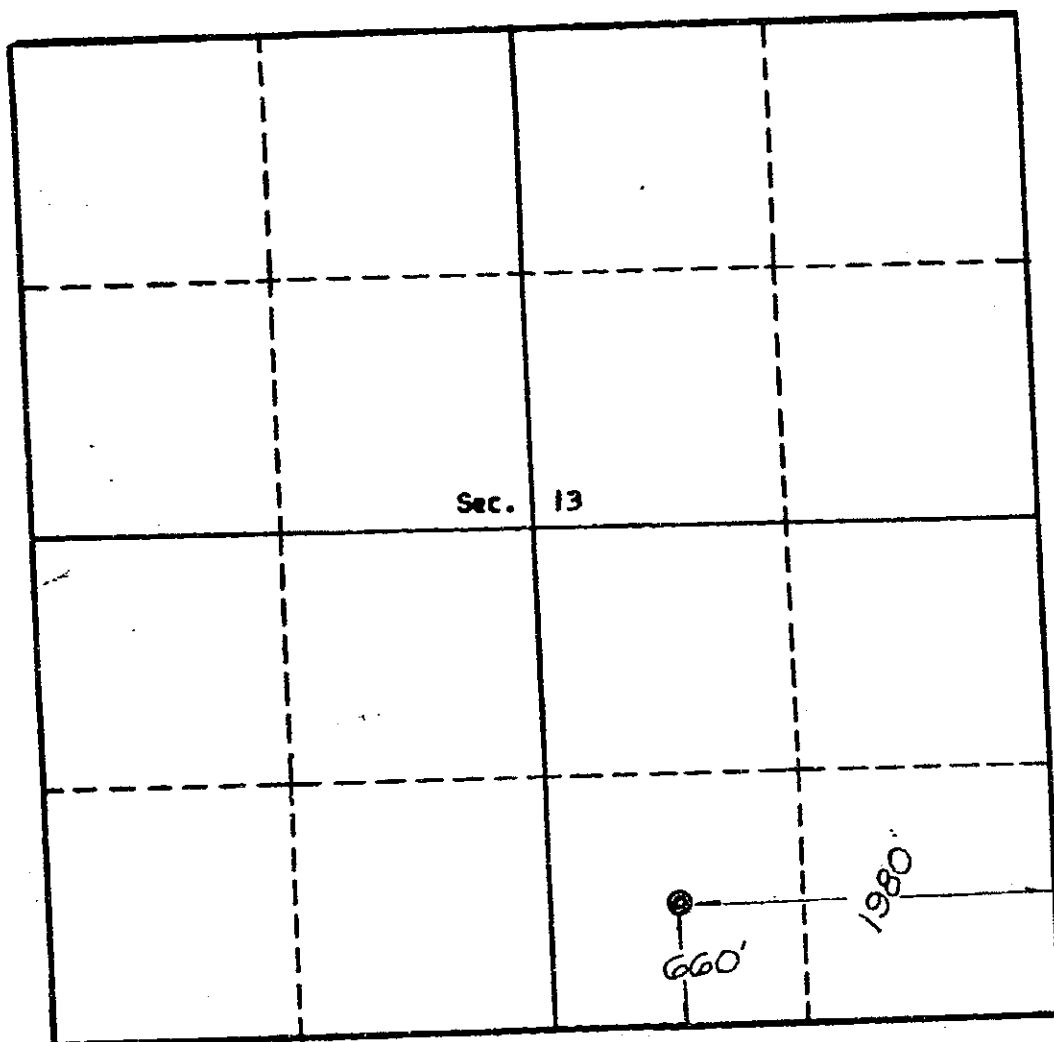
See attached survey  
Date Surveyed \_\_\_\_\_  
Registered Professional Engineer and/or Land Surveyor \_\_\_\_\_

Certificate No. \_\_\_\_\_

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
13-3/8	48#	J-55	0	350	0-350'	375 sx
5 1/2"	15.5#	J-55	0	5400'	4000-5400	250 sx

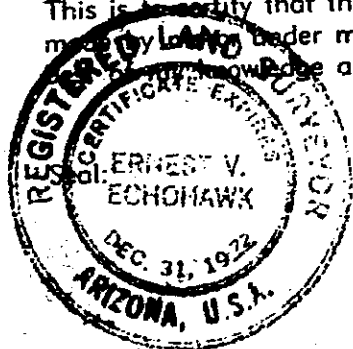
Company TESORO PETROLEUM CORPORATION  
Well Name & No. NAVAJO - DAVIS #1  
Location 660 feet from the South line and 1980 feet from the East line.  
Sec. 13, T. 38 N., R. 23 E., G. & S. R. M., County Apache, Arizona  
Ground Elevation 5263



Scale, 1 inch = 1,000 feet

Surveyed July 24, 19 72

This is to certify that the above plat was prepared from field notes of actual surveys made by Ernest V. Echohawk under my supervision and that the same are true and correct to the best of my knowledge and belief.



Ernest V. Echohawk  
Ernest V. Echohawk  
Registered Land Surveyor  
Arizona Registration No. 2311

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AUG 17 1972  
O & G CONS. COMM.

593



## PERMIT TO DRILL

This constitutes the permission and authority from the  
OIL AND GAS CONSERVATION COMMISSION,  
STATE OF ARIZONA,

To: TESORO PETROLEUM CORPORATION  
(OPERATOR)

to drill a well to be known as

TESORO PETROLEUM CORPORATION NAAJO-DAVIS #1  
(WELL NAME)

located 660' FSL and 1980' FKL

Section 13 Township 38 N Range 23 E, Apache County, Arizona.

The 80 acres (S/2 of SE/4) of said  
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled  
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 17th day of August, 19 72.

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL  
YOU MUST BE IN FULL COMPLIANCE WITH RULE  
105, SECTION A THRU G (SPACING), WITH RESPECT  
TO THE PRODUCT TO BE PRODUCED.

OIL AND GAS CONSERVATION COMMISSION

By W. B. Allen

EXECUTIVE SECRETARY

PERMIT N<sup>o</sup> 593

RECEIPT NO. 2928

API NO. 02-001-20170

SAMPLES ARE REQUIRED

State of Arizona  
Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

255-

*April*  
March 7, 1980

Maryland Casualty Co.  
Baltimore, Maryland

Re: Bond 94355014  
Tesoro Petroleum Corp.  
San Antonio, Texas

Gentlemen:

This is your authority to release the above captioned bond.  
Please make this effective as of February 5, 1980.

Yours truly,

Don Whittaker  
Director  
Enforcement Section

DW:os

CC: R. F. Kuenstler, Tesoro

593



April 12, 1980

State of Arizona,  
Arizona Oil & Gas Commission,  
1645 W. Jefferson, Suite 420  
Phoenix, AZ 85007

Re - Bond 94-355014, Oil Well Drilling Bond, Tesoro Petroleum Corp.

Gentlemen:

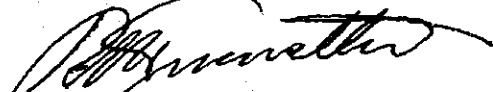
Please let me have a release for this bond as our insurance company will not allow us to cancel this without first securing such a letter of release from you.

This bond was originally sent to you in August, 1972. At the present time we have no interest, property, or otherwise in Apache County, Arizona which the bond was to have originally covered.

If possible we would like to have the bond cancelled as of February 5, 1980, however the earliest date possible will be acceptable.

Thank you for your assistance and we look forward to an early reply.

Yours very truly,

  
R. F. KUENSTLER  
Insurance Dept. - Bonds

rfk/sd

*Don. O.K.*

593

April 7, 1980

R. F. Kuenstler  
Insurance Dept.-Bonds  
Tesoro Petroleum Corp.  
8700 Tesoro Dr.  
San Antonio, Texas 78286

Dear Mr. Kuenstler:

We are unable to find an address for the Maryland Casualty Co.,  
so would you please forward this letter to them?

Yours truly,

Don Whittaker  
Director  
Enforcement Section

DW:os  
Enc.



March 24, 1980

State of Arizona  
Arizona Oil & Gas Conservation  
Commission  
4515 N 7th AVE  
Phoenix, AZ 85013

RE: Bond 94 355014, Oil Well Drilling Bond, Tesoro Petroleum Corp.

Gentlemen:

Please let me have a release for this bond as our insurance company will not allow us to cancel this without first securing such a letter of release from you.

This bond was originally sent to you in August 1972. At the present time we have no interest, property, or otherwise in Apache County, Arizona which the bond was to have originally covered.

If possible we would like to have the bond cancelled as of February 5, 1980, however, the earliest date possible will be acceptable.

Thank you for your assistance and we look forward to an early reply.

Yours very truly,

R. F. KUENSTLER  
Insurance Dept. - Bonds

RFK/rb

Encl. Copy of check 804745  
containing information  
for checking purposes

Tesoro Petroleum Corporation, 8700 Tesoro Drive, San Antonio, Texas 78286, (512) 828-8484

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MAR 31 1980

INSURANCE DEPT.

RECEIVED

APR 7 80

O & G CONS. COMM.



8520 CROWN HILL

TESORO PETROLEUM CORPORATION

SAN ANTONIO, TEXAS 78209

ATTN: BILL ALLEN

Fee in connection with Oil & Gas Blanket Bond

Navajo-Davis #1

Apache County, Arizona

\$25.00

2707

660-FSL-1980 EL, Sec. 13, T38N R23E

Indian Lease #N00-014-20-4333

01341

BOND # 94355014

being sent under separate cover by the insurance company.

TESORO PETROLEUM CORPORATION

8520 CROWN HILL  
SAN ANTONIO, TEXAS 78209

Nº 804745

2-3  
710

PAY EXACTLY

DATE

AMOUNT

August 23, 1972

\$25.00

TESORO \$25 AND 00 CTS

TO THE  
ORDER  
OF Oil and Gas Conservation Commission  
State of Arizona  
Phoenix, Arizona

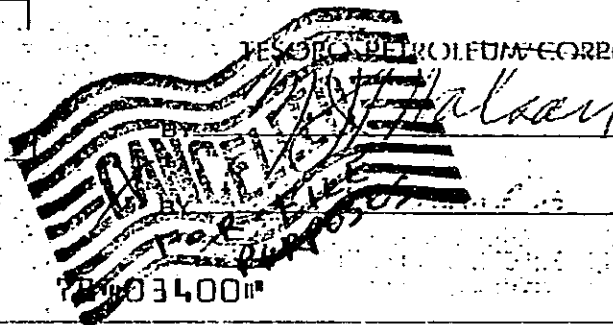
CONTINENTAL ILLINOIS NATIONAL BANK AND TRUST COMPANY OF CHICAGO  
CHICAGO, ILLINOIS

804745

07100003

03400

TESORO PETROLEUM CORPORATION



**MEMO**  
TEXAS EMPLOYERS' INSURANCE ASSOCIATION

From: RUSS KUENSTLER

To: *WY* Mr. Allen

The required \$25 fee was mailed  
to your office on 8-23-72 in advance  
of the attached bond.

Thanks,

*R. Kuenstler*  
R. KUENSTLER  
R. KUENSTLER, MGR.  
TESORO PETROLEUM CORPORATION  
8520 CROWNHILL  
SAN ANTONIO, TEXAS 78209

#593



EMPLOYERS' INSURANCE OF TEXAS Texas Employers'  
Insurance Association, Employers Casualty Company, Employers National Life  
Insurance Company, Employers National Insurance Company

BOND

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 94-355014

That we: TESORO PETROLEUM CORPORATION  
1776 LINCOLN ST., DENVER CENTER BLDG., DENVER, COLORADO 80203  
of the DENVER in the COLORADO  
County of: DENVER State of: COLORADO

as principal,  
and MARYLAND CASUALTY COMPANY  
of BALTIMORE, MARYLAND  
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit:

SW/4, SE/4 660' FSL, 1980' FEL SEC. 13, T38N, R-23E  
(May be used as blanket bond or for single well)  
APACHE COUNTY, ARIZONA  
WELL TO BE KNOWN AS NAVAJO-DAVIS #1

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of FIVE THOUSAND AND NO/100 - - - - - (\$5,000.00) DOLLARS

Witness our hands and seals, this 17th day of AUGUST, 1972.

RECEIVED

AUG 31 1972

O & G CONS. COMM.

Witness our hands and seals, this 17th day of AUGUST, 1972

COUNTERSIGNED:

John F. Wantland III  
Arizona Resident Agent  
JOHN F. WANTLAND III

MARYLAND CASUALTY COMPANY  
BY: Robert Still  
ROBERT STILL, ATTY-IN-FACT Surety

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved 8-31-72  
Date

W. B. Allen  
STATE OF ARIZONA  
OIL AND GAS CONSERVATION COMMISSION

CERTIFIED COPY

**Know all Men by these Presents:** That MARYLAND CASUALTY COMPANY, a corporation created by and existing under the laws of the State of Maryland, of Baltimore City, Maryland, in pursuance of the authority set forth in Section 12 of Article V of its By-laws, from which the following is a true extract, and which Section has not been amended nor rescinded:

"The Chairman of the Board or the President or any Vice-President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority."

does hereby nominate, constitute and appoint **ROBERT STILL**

of **SAN ANTONIO** State of **TEXAS** its Attorneys-in-Fact to make, execute, seal, and deliver on its behalf as Surety, and as its act and deed, any and all bonds, recognizances, stipulations, undertakings, and other like instruments.

Such bonds, recognizances, stipulations, undertakings, or other like instruments shall be binding upon said Company as fully and to all intents and purposes as if such instruments had been duly executed and acknowledged and delivered by the authorized officers of the Company when duly executed by **the aforesaid attorney in fact.**

**This instrument supersedes power of attorney granted F. L. Hand and Robert Still, dated September 14, 1965.**

In Witness Whereof, MARYLAND CASUALTY COMPANY has caused these presents to be executed in its name and on its behalf and its Corporate Seal to be hereunto affixed and attested by its officers thereunto duly authorized, this **6th** day of **March**, 19**67**, at Baltimore City, Maryland.

ATTEST: (CORPORATE SEAL)

MARYLAND CASUALTY COMPANY

(Signed) **Kathryn B. Young**  
Assistant Secretary.

By (Signed) **Albert H. Walker**  
Vice-President.

STATE OF MARYLAND

BALTIMORE CITY

ss.

On this **6th** day of **March**, A. D., 19**67**, before the subscriber, a Notary Public of the State of Maryland, in and for Baltimore City, duly commissioned and qualified, came

**Albert H. Walker** Vice-President, and **Kathryn B. Young** Assistant Secretary, of MARYLAND CASUALTY COMPANY, to me personally known, and known to be the officers described in, and who executed the preceding instrument; and they each acknowledged the execution of the same; and, being by me duly sworn, they severally and each for himself deposed and said that they respectively hold the offices in said Corporation as indicated, that the Seal affixed to the preceding instrument is the Corporate Seal of said Corporation, and that the said Corporate Seal, and their signatures as such officers, were duly affixed and subscribed to the said instrument pursuant to all due corporate authorization.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at Baltimore City, the day and year first above written.

(NOTARIAL SEAL)

(Signed) **Lila G. Schwartz**

Notary Public.

My commission expires **July 1, 1967**

CERTIFICATE

I, an Assistant Secretary of the Maryland Casualty Company, do hereby certify that I have compared the aforesaid copy of the Power of Attorney with the original now on file among the records of the Home Office of the Company and in my custody, and that the same is a full, true and correct copy, and that the Power of Attorney has not been revoked, amended or abridged, and is now in full force and effect.

Given under my hand as Assistant Secretary, and the Seal of the Company, at Baltimore City, Md., this

**17th** day of **AUGUST**

A. D., 19**72**

**AUG 31 1972**

**Kathryn B. Young**  
Assistant Secretary.

The following Resolution was adopted by the Board of Directors of the Maryland Casualty Company at the regular meeting held in Houston, Texas, on January 27, 1970.

RESOLVED that the facsimile or mechanically reproduced signature of any Assistant Secretary of the Company, wherever appearing upon a certified copy of any Power of Attorney issued by the Company heretofore or hereafter, for the execution of bonds, policies, recognizances, stipulations, undertakings or other like instruments, shall be valid and binding upon the Company as though manually affixed.



Telegram

PFA265 (1616) (1-0248440238) PD 08/25/72 1615

ICS IPMSNTC SNT

220 203 C LH PDF SAN ANTONIO TX 25 247P CDT

FMS BILL ALLEN (ARIZONA OIL AND GAS CONSERVATION COMMISSION

4515 NORTH 7TH AVE PHOENIX ARIZ 85013

MARYLAND CASUALTY CO BOND NUMBER 94-355014 STATE OF ARIZONA COVERING

NAVAJO DAVIS NUMBER 1 660FSL-1980 EL SECTION 13

T38N R23E APACHE COUNTY ARIZONA INDIAN LEASE NUMBER

NO-614-20-4333 EFFECTIVE 8-17-72 FOR TESORO PETROLEUM CORP

ALEXANDER AND ALEXANDER OF TEXAS INC.

RECEIVED

AUG 28 1972

O & G CONS. COMM.

November 29, 1972

Mr. Harvey Ashford  
Tesoro Petroleum Company  
P. O. Box 5568  
Denver, Colorado 80217

Re: Tesoro Navajo-Davis No. 1  
SE/SE Sec 13-T38N-R23E  
Apache County  
Permit No. 593

Dear Mr. Ashford:

Please refer to our letter of November 14, 1972, requesting a Completion Report, well logs, electric logs and any other pertinent information to the drilling and plugging of the above referenced well.

Your cooperation is appreciated.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

November 14, 1972

Mr. Harvey Ashford  
Tesoro Petroleum Company  
P. O. Box 5568  
Denver, Colorado 80217

Re: Tesoro Petroleum Navajo-Davis No. 1  
SE/SE Section 13-T38N-R23E  
Apache County  
Permit No. 593

Dear Mr. Ashford:

Please submit Form 4, Well Completion or Recompletion Report and Well Log, electric logs and any other pertinent information pertaining to the drilling of this well to our office as quickly as possible.

Rule 119 of our Rules and Regulations stipulates that the above requested information must be filed within 30 days following completion of any well drilled. Your Plugging Record was filed with this office on October 12, 1972.

Thank you for your cooperation.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/r1b

Encs.

TESORO PETROLEUM CORPORATION

ROCKY MOUNTAIN DISTRICT  
SUITE 1012, 1776 LINCOLN STREET  
DENVER, COLO. 80203  
PHONE 303-572-8337

October 23, 1972

Mr. W. E. Allen  
Oil and Gas Conservation Commission  
State of Arizona  
4515 North 7th Avenue  
Phoenix, Arizona 85013

Re: Tesoro Petroleum Navajo-Davis #1  
SW SE Sec. 13, T38N, R23E  
Apache County, Arizona  
Permit #593

Dear Mr. Allen:

Enclosed is the original and one copy of the "Plugging Record" for our Navajo-Davis #1. We have reported the number of sacks of cement used on each plug as requested.

If there is any other information needed, please let me know.

Very truly yours,

*J. Harvey Ashford, Jr.*  
J. Harvey Ashford, Jr.  
Operations Manager

JHA/lr  
Enclosures

RECEIVED

OCT 25 1972

O & G CONS. COMM.



October 16, 1972

Mr. Harvey Ashford  
Tesoro Petroleum Company  
P. O. Box 5568  
Denver, Colorado 80217

Re: Tesoro Petroleum Navajo-Davis No. 1  
SW/SE Section 13-T38N-R23E  
Apache County  
Permit No. 593

Dear Mr. Ashford:

We are returning the Plugging Record on the above referenced well. Please indicate in the proper column the number of sacks of cement used in each interval.

Your cooperation is appreciated.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

Enc.

September 19, 1972

Mr. Dick Denman  
Tesoro Petroleum Corporation  
8520 Crownhill Boulevard  
San Antonio, Texas 78239

Re: Tesoro Petroleum Navajo-Davis No. 1  
SW/SE Section 13-T38N-R23E  
Apache County  
Permit No. 593

Dear Mr. Denman:

On August 29, 1972 we wrote to Mr. Ashford at your San Antonio address requesting an Organization Report. As yet we have had no response to this request. An Organization Report is one of the prerequisites of this Commission prior to issuing a Permit to Drill in the State of Arizona. Will you please have the attached forms completed and return one copy to this office as soon as possible.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/r1b

Encs.

phone no. Denman - 512-824-0261

Harvey Ashford  
P.O. Box 5568  
Denver, Col. 80217  
303 - 572 - 8337

September 9, 1972

Mr. J. Harvey Ashford, Jr.  
Tesoro Petroleum Corporation  
8520 Crownhill Boulevard  
San Antonio, Texas 78239

Re: Tesoro Petroleum Navajo-Davis No. 1  
SW/SE Section 13-T38N-R23E  
Apache County  
Permit No. 593

Dear Mr. Ashford:

Please be advised that the Commission requires a weekly progress report on all wells being drilled in the State of Arizona. This report is due to reach this office on Monday morning of each week. It should include your depth reached at the time the report was submitted, any drill stem test, coring, casing set, or any other activities not of a routine drilling nature.

Please see that this report is received on the day it is due.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/r1b

803-572-5387

August 29, 1972

Mr. J. Harvey Ashford, Jr.  
Tesoro Petroleum Corporation  
8520 Crownhill Boulevard  
San Antonio, Texas 78239

Re: Tesoro Petroleum Navajo-Davis No. 1  
SW/SE Section 13-T38N-R23E  
Apache County  
File No. 593

Dear Mr. Ashford:

We have not received the Organization Report as required by this Commission. Please have this report completed and returned to this office as quickly as possible.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rib

Encs.

August 17, 1972

Mrs. Jo Ratcliff  
Four Corners Sample Cut Association  
P. O. Box 899  
Farmington, New Mexico 87401

Dear Mrs. Ratcliff:

The following permit was issued since August 11, 1972.

Tesoro Petroleum Corporation  
Navajo-Davis No. 1  
SW/SE Section 13-T38N-R23E  
Apache County  
File No. 593

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/r1b

August 17, 1972

Mr. Frank Getscher  
P. O. Box 98  
Scottsdale, Arizona 85252

Dear Mr. Getscher:

The following permit was issued on August 17, 1972.

Tesoro Petroleum Corporation  
Navajo-Davis No. 1  
SW/SE Section 13-T38N-R23E  
Apache County  
File No. 593

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/r1b

August 17, 1972

Mr. J. Harvey Ashford, Jr.  
Tesoro Petroleum Corporation  
8520 Crownhill Boulevard  
San Antonio, Texas 78239

Re: Tesoro Petroleum Navajo-Davis No. 1  
SW/SE Section 13-T38N-R23E  
Apache County  
File No. 593

Dear Mr. Ashford:

Enclosed please find Receipt No. 2928 covering the \$25 filing fee, a copy of your approved Application for Permit to Drill and Permit to Drill No. 593.

Also enclosed are miscellaneous instruction sheets concerning samples and other Commission requirements.

Please note on the approved application that the acreage dedicated to this well has been changed from 40 acres to 80 acres. Eighty acres is required for an oil test drilled in Arizona. You will note that we have also indicated the S/2 of the SE/4 as being the dedicated acreage. If this does not meet with your approval, please advise.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

ucs.



8520 CROWN HILL

TESORO PETROLEUM CORPORATION

SAN ANTONIO, TEXAS 78209

ATTN: BILL ALLEN

Fee in connection with Oil & Gas Blanket Bond

Navajo-Davis #1

Apache County, Arizona

\$25.00

2707

660-FSL-1980 EL, Sec. 13, T38N R23E

Indian Lease #N00-C114-20-4333

01341

BOND # 943550114

being sent under separate cover by the insurance company.

593